

ABSTRACT

Onto a heat sink (1) to be in contact with an electronic device (A), a liquid channel (4) is provided, and metal pipes (20) and (21) connecting a pump (3) which transfers a cooling liquid by the rotation of an impeller (16) to the liquid channel (4) are placed to construct a liquid cooling mechanism B, and a radiating fin (37) is placed on the outer surface of the metal pipes (20) and (21), and a fan (25) which discharge the air from within the metal pipes (20) and (21) having the radiating fin (37) placed thereon and from within the body is placed to construct a forcible air cooling mechanism (C). By placing magnets (29) and (39) on the fan (25) and the impeller (16), respectively, the constructions of the rotation driving mechanism are simplified to make it possible to provide a cooler in a compact form.